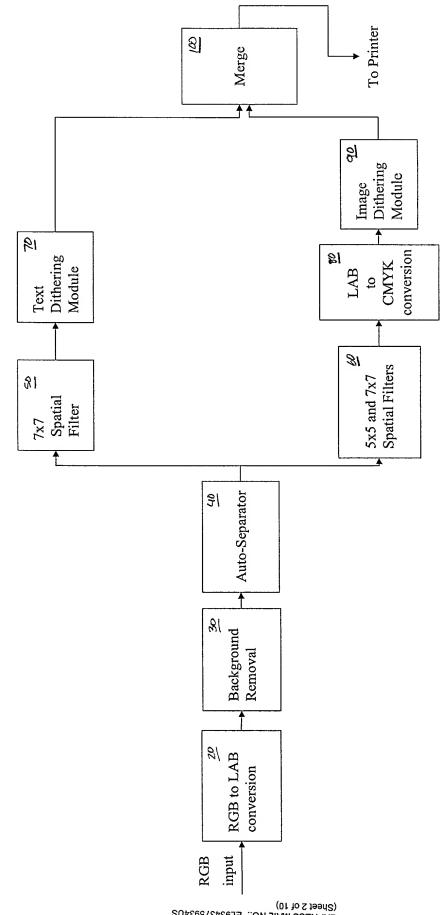


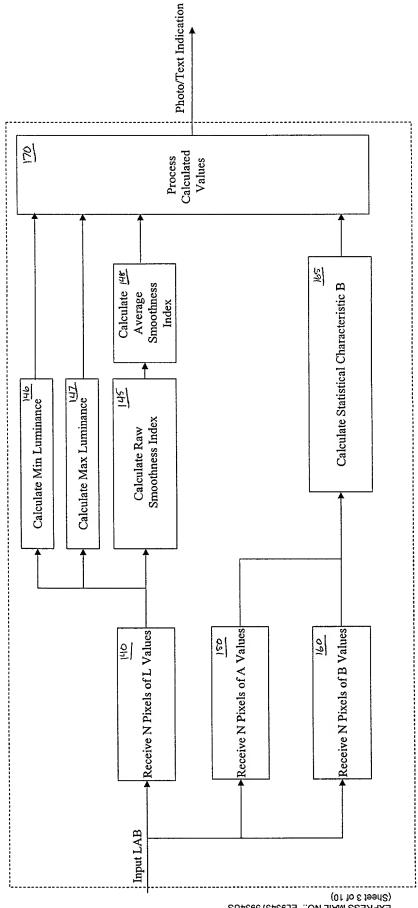
TITLE: Methods for Auto-Separation of Texts and Graphics APPLICANTS: Strinidhi et al.
SERIAL NO.: Not Yet Assigned
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ATTYVAGENT: Leigh J. Martinson
EXPRESS MAIL NO.: EL934375934US
(Sheet 1 of 10)

FIG. 2

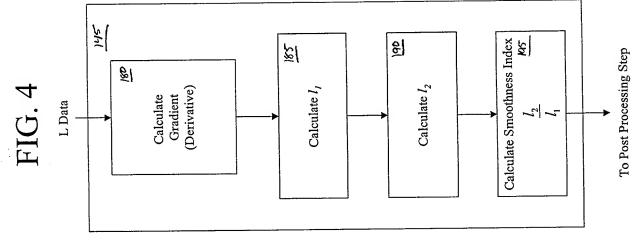


TITLE: Methods for Auto-Separation of Texts and Graphics APPLICANTS: Srindhi et al. SERIAL NO.: Not Yet Assigned ATTY DOCKET NO.: PXL-042 ATTY ACENT: Leigh J. Martinson ATTY ACENT ACENT

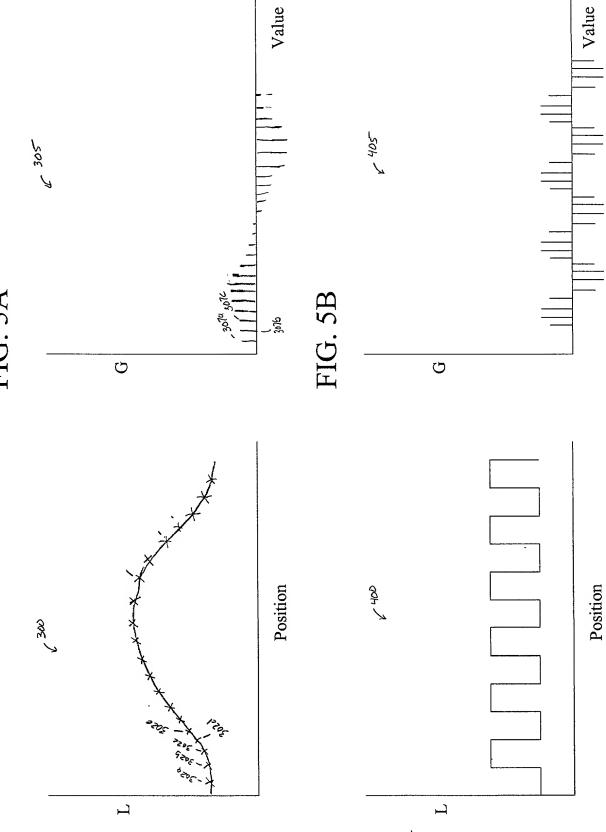
FIG. 3



TITLE: Methods for Auto-Separation of Texts and Graphics APPLICANTS: Srinidh et al. SERIAL NO.: Not Yet Assigned ATTY DOCKET NO.: PXL-042 ATTYNGENT: Leigh J. Martinson EXPRESS MAIL NO.: EL934375934US



TITLE: Methods for Auto-Separation of Texts and Graphics APPLICANTS: Schridhi et al. SERIAL NO.: Not Yet Assigned ATTY, DOCKET NO.: PXL-042 ATTY/AGENT: Leigh J. Martinson ATTY/AGENT: Leigh J. Martinson ATTY/AGENT: Loo: EL934375934US (Sheet 4 of 10)

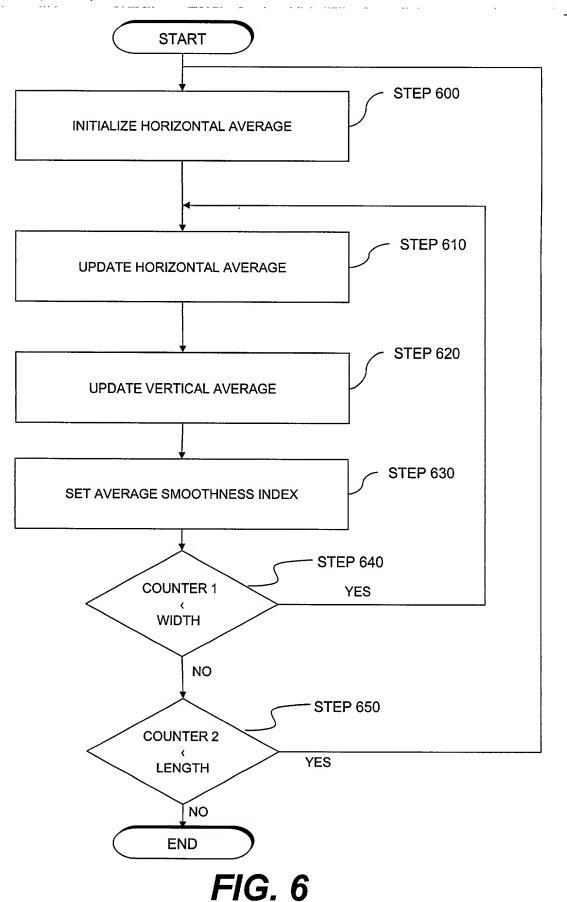


TITLE Methods for Auto-Separation of Texts and Graphics ATTY/ACENTS: Strindini et al.
SERIAL NO.: Not Yet Assigned ATTY/ACENT: Leigh J. Martinson ATTY/ACENT NO.: PAL-042
ATTY/ACENT NO.: PEUS4375934US
(Sheet 5 of 10)

SERIAL NO.: Not Yet Assigned ATTY. DOCKET NO.: PXL-042 ATTY/AGENT: Leigh J. Martinson EXPRESS MAIL NO.: EL934375934US

(Sheet 6 of 10)

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ATTY. DOCKET NO.: PXL-042 ATTY/AGENT: Leigh J. Martinson EXPRESS MAIL NO.: EL934375934US (Sheet 7 of 10) **START STEP 700** NO MAX NON NUETRAL COLOR COLOR_THRESH YES SET PIXEL SEGMENT TO IMAGE **STEP 710** SET SMOOTH THRESH OF SEGMENT LOW INCREMENT IMAGE RUN COUNT SET IN CAPS = 0 **STEP 720** IMAGE_RUN_COUNT NO IMAGE_RUN_THRESH YES **STEP 730** SEGMENT NUMBER - IMAGE_RUN_THRESH **STEP 740 STEP 760** NO N >= 0SET PIXEL BLOCK TO IMAGE **DECREMENT N** YES SET SMOOTH THRESH OF COUNTER VALUE LOW AVGERAGE SMOOTHNESS NO YES LOW SMOOTHNESS THRESHOLD **STEP 750** FIG. 7A

TITLE: Methods for Auto-Separation of Texts and Graphics

APPLICANTS: Srinidhi et al. SERIAL NO.: Not Yet Assigned

TITLE: Methods for Auto-Separation of Texts and Graphics APPLICANTS: Srinidhi et al. SERIAL NO.: Not Yet Assigned ATTY. DOCKET NO.: PXL-042 ATTY/AGENT: Leigh J. Martinson EXPRESS MAIL NO.: EL934375934US (Sheet 8 of 10) Α **STEP 770** NO AVG. SMOOTH OF SEGMENT >= SMOOTH THRESH OF SEGMENT YES **STEP 780** NO MAX LUM. OF SEGMENT <= MAX_LUM_IN_CAPS **STEP 790** YES NO IN CAP COUNTER = 0 YES STEP 800 SEG. NO. > 0 AND SEG. NO.-1 = TEXT AND MIN LUM. SEG. NO.-1 <= MAX LUM. IN CAP THRESH NO **STEP 830 STEP 810 STEP 820** YES IN_CAP = IN_CAP+ IN_CAP =0 $IN_CAP = 1$ **SET SEGMENT AS IMAGE** SET SEGMENT THRESH. TO LOW INCREMENT IMAGE RUN COUNT **STEP 840**

FIG. 7B

ATTY/AGENT: Leigh J. Martinson EXPRESS MAIL NO: EL934375934US (Sheet 9 of 10) С **STEP 850 IMAGE RUN COUNT** NO IMAGE_RUN_THRESH YES **STEP 860** SET COUNTER = BLOCK NUMBER - IMAGE_RUN_THRESH **STEP 870** NO COUNTER >= 0 **STEP 890** YES SET PIXEL BLOCK TO IMAGE **DECREMENT COUNTER** SET SMOOTH THRESH OF **COUNTER VALUE LOW AVGERAGE SMOOTHNESS** NO YES LOW SMOOTHNESS THRESHOLD **STEP 880** SET IN CAP = 0 **STEP 900** FIG. 7C

TITLE: Methods for Auto-Separation of Texts and Graphics

APPLICANTS: Srinidhi et al. SERIAL NO.: Not Yet Assigned ATTY. DOCKET NO.: PXL-042

APPLICANTS: Srinidhi et al. SERIAL NO.: Not Yet Assigned ATTY. DOCKET NO.: PXL-042 ATTY/AGENT: Leigh J. Martinson EXPRESS MAIL NO.: EL934375934US (Sheet 10 of 10) В **STEP 920 STEP 910** IMAGE RUN COUNT >= YES SET PIXEL BLOCK TO IMAGE IMAGE_RUN_THRESH AND SET SMOOTH THRESH OF BLOCK LOW AVG SMOOTH OF BLOCK >= LOW SMOOTH THRESH NO **STEP 930** IN CAPS ≠ 0 AND NO MIN LUM. OF BLOCK <= MAX LUM. IN CAPS YES **STEP 940 STEP 970** M = SEGMENT NO. - IN_CAP SET BLOCK AS TEXT SET SMOOTH TRHESH OF BLOCK HIGH **STEP 950** SET IMAGE RUN COUNT = 0 SET BLOCK AS TEXT SET SMOOTH THRESH OF BLOCK HIGH **INCREMENT M** DECREMENT IN CAP VALUE. D NO YES IN CAP VALUE > 0 **STEP 1000** GO TO NEXT BLOCK **STEP 960**

TITLE: Methods for Auto-Separation of Texts and Graphics

FIG. 7D